

ULTEM™ SF2250 resin

Polyether Imide

SABIC Innovative Plastics Asia Pacific

Message:

High flow ULTEM for thin wall application

General Information			
Features	High liquidity		
Uses	Thin wall parts		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	20	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (345°C/10.0 kg)	40.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Flow	0.46	%	Internal method
Transverse flow	0.54	%	Internal method
Water Absorption			
23°C, 24 hr	0.20	%	ISO 62
Equilibrium, 23°C, 50% RH	0.070	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	8900	MPa	ASTM D638
Tensile Strength			
Fracture ²	162	MPa	ASTM D638
Fracture	157	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	3.0	%	ASTM D638
Fracture	3.0	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁴	7260	MPa	ASTM D790
-- ⁵	7150	MPa	ISO 178
Flexural Strength ⁶ (Yield, 50.0 mm Span)	197	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	89	J/m	ASTM D256
23°C ⁷	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	203	°C	ASTM D648

1.8 MPa, unannealed, 100 mm span ⁸	208	°C	ISO 75-2/Ae
Linear thermal expansion coefficient			
Flow: -40 to 150°C	1.4E-5	cm/cm/°C	ASTM E831
Flow: 23 to 150°C	1.8E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 150°C	5.4E-5	cm/cm/°C	ASTM E831
Horizontal: 23 to 150°C	5.9E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	4.0 - 6.0	hr	
Drying Time, Maximum	24	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 60	%	
Rear Temperature	332 - 399	°C	
Middle Temperature	338 - 399	°C	
Front Temperature	343 - 399	°C	
Nozzle Temperature	343 - 399	°C	
Processing (Melt) Temp	349 - 399	°C	
Mold Temperature	135 - 163	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.025 - 0.076	mm	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	120*10*4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT